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1635

RAW SEQUENCE LISTING      DATE: 11/27/2000  
 PATENT APPLICATION: US/09/496,231A      TIME: 17:39:41

Input Set : A:\PTO.txt  
 Output Set: N:\CRF3\11272000\I496231A.raw

4 <110> APPLICANT: Hubbell, Jeffrey A.  
 5      Elbert, Donald  
 6      Lutolf, Matthias  
 7      Pratt, Alison  
 8      Schoenmakers, Ronald  
 9      Tirelli, Nicola  
 10      Vernon, Brent  
 12 <120> TITLE OF INVENTION: BIOMATERIALS FORMED BY NUCLEOPHILIC  
 13      ADDITION REACTION TO CONJUGATED UNSATURATED GROUPS  
 16 <130> FILE REFERENCE: 50154/002002  
 18 <140> CURRENT APPLICATION NUMBER: 09/496,231A  
 19 <141> CURRENT FILING DATE: 2000-02-01  
 21 <150> PRIOR APPLICATION NUMBER: 60/118,093  
 22 <151> PRIOR FILING DATE: 1999-02-01  
 24 <160> NUMBER OF SEQ ID NOS: 74  
 26 <170> SOFTWARE: FastSEQ for Windows Version 4.0

Does Not Comply  
 Corrected Diskette Needed

# ERRORED SEQUENCES

28 <210> SEQ ID NO: 1  
 29 <211> LENGTH: 10  
 30 <212> TYPE: PRT  
 31 <213> ORGANISM: Artificial Sequence  
 33 <220> FEATURE:  
 34 <223> OTHER INFORMATION: Based on Homo sapiens  
 36 <221> NAME/KEY: VARIANT  
 37 <222> LOCATION: (1)...(10)  
 38 <223> OTHER INFORMATION: Xaa=any amino acid except Cys  
 40 <400> SEQUENCE: 1  
 E--> 41 Tyr Cys Xaa Xaa Xaa Xaa Xaa Cys Tyr 1 5 10  
 43 <210> SEQ ID NO: 2  
 44 <211> LENGTH: 8  
 45 <212> TYPE: PRT  
 46 <213> ORGANISM: Artificial Sequence  
 48 <220> FEATURE:  
 49 <223> OTHER INFORMATION: Based on Homo sapiens  
 51 <221> NAME/KEY: VARIANT  
 52 <222> LOCATION: (1)...(8)  
 53 <223> OTHER INFORMATION: Xaa=any amino acid except Cys  
 55 <400> SEQUENCE: 2  
 E--> 56 Cys Xaa Xaa Xaa Xaa Xaa Xaa Cys 1 5  
 58 <210> SEQ ID NO: 3  
 59 <211> LENGTH: 6  
 60 <212> TYPE: PRT  
 61 <213> ORGANISM: Artificial Sequence  
 63 <220> FEATURE:

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64 <223> OTHER INFORMATION: Based on Homo sapiens
66 <221> NAME/KEY: VARIANT
67 <222> LOCATION: (1)...(6)
68 <223> OTHER INFORMATION: Xaa=any amino acid except Cys
70 <400> SEQUENCE: 3
E--> 71 Xaa Xaa Xaa Xaa Xaa Xaa 1 5
73 <210> SEQ ID NO: 4
74 <211> LENGTH: 13
75 <212> TYPE: PRT
76 <213> ORGANISM: Artificial Sequence
78 <220> FEATURE:
79 <223> OTHER INFORMATION: Based on Homo sapiens
81 <221> NAME/KEY: VARIANT
82 <222> LOCATION: (1)...(13)
83 <223> OTHER INFORMATION: Xaa=any amino acid except Cys
85 <400> SEQUENCE: 4
86 Cys Xaa Xaa Xaa Xaa Xaa Cys Xaa Xaa Xaa Xaa Xaa Cys 1 5
E--> 87 10
89 <210> SEQ ID NO: 5
90 <211> LENGTH: 7
91 <212> TYPE: PRT
92 <213> ORGANISM: Artificial Sequence
94 <220> FEATURE:
95 <223> OTHER INFORMATION: Based on Homo sapiens
97 <221> NAME/KEY: VARIANT
98 <222> LOCATION: (1)...(7)
99 <223> OTHER INFORMATION: Xaa=any amino acid except Cys
101 <400> SEQUENCE: 5
E--> 102 Cys Xaa Xaa Xaa Xaa Xaa Cys 1 5
129 <210> SEQ ID NO: 7
130 <211> LENGTH: 5
131 <212> TYPE: PRT
132 <213> ORGANISM: Artificial Sequence
134 <220> FEATURE:
135 <223> OTHER INFORMATION: Based on Homo sapiens
137 <221> NAME/KEY: VARIANT
138 <222> LOCATION: (1)...(5)
139 <223> OTHER INFORMATION: Xaa=any amino acid except Cys or Tyr
141 <400> SEQUENCE: 7
E--> 142 Xaa Xaa Xaa Xaa Xaa 1 5
144 <210> SEQ ID NO: 8
145 <211> LENGTH: 6
146 <212> TYPE: PRT
147 <213> ORGANISM: Artificial Sequence
149 <220> FEATURE:
150 <223> OTHER INFORMATION: Based on Homo sapiens
152 <400> SEQUENCE: 8
E--> 153 Gly Pro Arg Val Val Glu 1 5
155 <210> SEQ ID NO: 9

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RAW SEQUENCE LISTING  
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Input Set : A:\PTO.txt  
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156 <211> LENGTH: 6
157 <212> TYPE: PRT
158 <213> ORGANISM: Artificial Sequence
160 <220> FEATURE:
161 <223> OTHER INFORMATION: Based on Homo sapiens
163 <400> SEQUENCE: 9
E--> 164 Asn Asn Arg Asp Asn Thr 1 5
166 <210> SEQ ID NO: 10
167 <211> LENGTH: 6
168 <212> TYPE: PRT
169 <213> ORGANISM: Artificial Sequence
171 <220> FEATURE:
172 <223> OTHER INFORMATION: Based on Homo sapiens
174 <400> SEQUENCE: 10
E--> 175 Tyr Asn Arg Val Ser Glu 1 5
177 <210> SEQ ID NO: 11
178 <211> LENGTH: 6
179 <212> TYPE: PRT
180 <213> ORGANISM: Artificial Sequence
182 <220> FEATURE:
183 <223> OTHER INFORMATION: Based on Homo sapiens
185 <400> SEQUENCE: 11
E--> 186 Gln Met Arg Met Glu Leu 1 5
188 <210> SEQ ID NO: 12
189 <211> LENGTH: 6
190 <212> TYPE: PRT
191 <213> ORGANISM: Artificial Sequence
193 <220> FEATURE:
194 <223> OTHER INFORMATION: Based on Homo sapiens
196 <400> SEQUENCE: 12
E--> 197 Gly Phe Arg His Arg His 1 5
199 <210> SEQ ID NO: 13
200 <211> LENGTH: 6
201 <212> TYPE: PRT
202 <213> ORGANISM: Artificial Sequence
204 <220> FEATURE:
205 <223> OTHER INFORMATION: Based on Homo sapiens
207 <400> SEQUENCE: 13
E--> 208 Gly Tyr Arg Ala Arg Pro 1 5
210 <210> SEQ ID NO: 14
211 <211> LENGTH: 6
212 <212> TYPE: PRT
213 <213> ORGANISM: Artificial Sequence
215 <220> FEATURE:
216 <223> OTHER INFORMATION: Based on Homo sapiens
218 <400> SEQUENCE: 14
E--> 219 Tyr Gln Lys Asn Asn Lys 1 5
221 <210> SEQ ID NO: 15
222 <211> LENGTH: 6

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223 <212> TYPE: PRT
224 <213> ORGANISM: Artificial Sequence
226 <220> FEATURE:
227 <223> OTHER INFORMATION: Based on Homo sapiens
229 <400> SEQUENCE: 15
E--> 230 Leu Ile Lys Met Lys Pro 1 5
232 <210> SEQ ID NO: 16
233 <211> LENGTH: 6
234 <212> TYPE: PRT
235 <213> ORGANISM: Artificial Sequence
237 <220> FEATURE:
238 <223> OTHER INFORMATION: Based on Homo sapiens
240 <400> SEQUENCE: 16
E--> 241 Asn Phe Lys Ser Gln Leu 1 5
243 <210> SEQ ID NO: 17
244 <211> LENGTH: 6
245 <212> TYPE: PRT
246 <213> ORGANISM: Artificial Sequence
248 <220> FEATURE:
249 <223> OTHER INFORMATION: Based on Homo sapiens
251 <400> SEQUENCE: 17
E--> 252 Glu Trp Lys Ala Leu Thr 1 5
254 <210> SEQ ID NO: 18
255 <211> LENGTH: 6
256 <212> TYPE: PRT
257 <213> ORGANISM: Artificial Sequence
259 <220> FEATURE:
260 <223> OTHER INFORMATION: Based on Homo sapiens
262 <400> SEQUENCE: 18
E--> 263 Ser Tyr Lys Met Ala Asp 1 5
265 <210> SEQ ID NO: 19
266 <211> LENGTH: 6
267 <212> TYPE: PRT
268 <213> ORGANISM: Artificial Sequence
270 <220> FEATURE:
271 <223> OTHER INFORMATION: Based on Homo sapiens
273 <400> SEQUENCE: 19
E--> 274 Thr Gln Lys Lys Val Glu 1 5
276 <210> SEQ ID NO: 20
277 <211> LENGTH: 6
278 <212> TYPE: PRT
279 <213> ORGANISM: Artificial Sequence
281 <220> FEATURE:
282 <223> OTHER INFORMATION: Based on Homo sapiens
284 <400> SEQUENCE: 20
E--> 285 Arg Gln Lys Gln Val Lys 1 5
300 <210> SEQ ID NO: 22
301 <211> LENGTH: 6
302 <212> TYPE: PRT

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RAW SEQUENCE LISTING  
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303 <213> ORGANISM: Artificial Sequence
305 <220> FEATURE:
306 <223> OTHER INFORMATION: Based on Homo sapiens
308 <400> SEQUENCE: 22
E--> 309 Leu Ile Lys Ala Ile Gln 1 5
640 <210> SEQ ID NO: 53
641 <211> LENGTH: 28
642 <212> TYPE: PRT
643 <213> ORGANISM: Artificial Sequence
645 <220> FEATURE:
646 <223> OTHER INFORMATION: Based on Homo sapiens
648 <400> SEQUENCE: 53
649 Arg Pro Ser Leu Ala Lys Lys Gln Arg Phe Arg His Arg Asn Arg Lys 1
E--> 650 5 10 15 Gly Tyr Arg Ser Gln Arg Gly His
E--> 651 Ser Arg Gly Arg 20 25
840 <210> SEQ ID NO: 69
841 <211> LENGTH: 156
842 <212> TYPE: PRT
843 <213> ORGANISM: Artificial Sequence
845 <220> FEATURE:
846 <223> OTHER INFORMATION: Based on Homo sapiens
848 <400> SEQUENCE: 69
849 Met Gly Ser Ser His His His His His Ser Ser Gly Leu Val Pro 1
E--> 850 5 10 15 Arg Gly Ser His Met Lys Asp Pro
851 Lys Arg Leu Tyr Arg Ser Arg Lys 20 25
E--> 852 30 Leu Pro Val Glu Leu Glu Ser Ser Ser His Pro Ile Phe His Arg Gly
E--> 853 35 40 45 Glu Phe Ser Val Cys Asp
854 Ser Val Ser Val Trp Val Gly Asp Lys Thr 50 55
E--> 855 60 Thr Ala Thr Asp Ile Lys Gly Lys Glu Val Met Val Leu Gly Glu
E--> 856 Val65 70 75 80 Asn Ile Asn
857 Asn Ser Val Phe Lys Gln Tyr Phe Phe Glu Thr Lys Cys 85
E--> 858 90 95 Arg Asp Pro Asn Pro Val Asp Ser Gly Cys Arg Gly Ile
E--> 859 Asp Ser Lys 100 105 110 His
860 Trp Asn Ser Tyr Cys Thr Thr Thr His Thr Phe Val Lys Ala Leu 115
E--> 861 120 125 Thr Met Asp Gly Lys Gln Ala Ala Trp Arg Phe
862 Ile Arg Ile Asp Thr 130 135 140
863 Ala Cys Val Cys Val Leu Ser Arg Lys Ala Val Arg145 150
E--> 864 155
866 <210> SEQ ID NO: 70
867 <211> LENGTH: 429
868 <212> TYPE: DNA
869 <213> ORGANISM: Artificial Sequence
871 <220> FEATURE:
872 <223> OTHER INFORMATION: Based on Homo sapiens
874 <400> SEQUENCE: 70
E--> 875 gaattcccat ggcataatgaa gacccgaaac gtctgtaccg ttctcgtaaa ctgcccgtag 60
W--> 876 60aaactcgagag ctcttcccaac ccgattttcc atcgtggcga gttctccgtg tgtgactctg
W--> 877 120ctctgtatggg taggcgataa aaccactgcc actgatatca aaggcaaaga ggtgatgggtg
W--> 878 180ctggggagaag taaacattaa caactctgta ttcaaacagt acttcttcga aactaagtgc

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RAW SEQUENCE LISTING  
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DATE: 11/27/2000  
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Input Set : A:\PTO.txt  
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W--> 879 240cgtgacccga acccggtaga ctctgggtgt cgcggcatcg attctaaaca ctggaactct  
W--> 880 300tactgcacca ctactcacac ttctgttaaa gcgttgacta tggatggtaa acaggctgcc  
W--> 881 360tggcgtttca tccgtatcga tactgcatgc gtgtgtgtac tgtcccgtaa agctgttcgt  
E--> 882 420taaggatcc

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VERIFICATION SUMMARY DATE: 11/27/2000  
PATENT APPLICATION: US/09/496,231A TIME: 17:39:42

Input Set : A:\PTO.txt  
Output Set: N:\CRF3\11272000\I496231A.raw

L:41 M:252 E: No. of Seq. differs, <211>LENGTH:Input:10 Found:0 SEQ:1  
L:56 M:252 E: No. of Seq. differs, <211>LENGTH:Input:8 Found:0 SEQ:2  
L:71 M:252 E: No. of Seq. differs, <211>LENGTH:Input:6 Found:0 SEQ:3  
L:87 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:4  
L:87 M:252 E: No. of Seq. differs, <211>LENGTH:Input:13 Found:0 SEQ:4  
L:102 M:252 E: No. of Seq. differs, <211>LENGTH:Input:7 Found:0 SEQ:5  
L:125 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6  
L:142 M:252 E: No. of Seq. differs, <211>LENGTH:Input:5 Found:0 SEQ:7  
L:153 M:252 E: No. of Seq. differs, <211>LENGTH:Input:6 Found:0 SEQ:8  
L:164 M:252 E: No. of Seq. differs, <211>LENGTH:Input:6 Found:0 SEQ:9  
L:175 M:252 E: No. of Seq. differs, <211>LENGTH:Input:6 Found:0 SEQ:10  
L:186 M:252 E: No. of Seq. differs, <211>LENGTH:Input:6 Found:0 SEQ:11  
L:197 M:252 E: No. of Seq. differs, <211>LENGTH:Input:6 Found:0 SEQ:12  
L:208 M:252 E: No. of Seq. differs, <211>LENGTH:Input:6 Found:0 SEQ:13  
L:219 M:252 E: No. of Seq. differs, <211>LENGTH:Input:6 Found:0 SEQ:14  
L:230 M:252 E: No. of Seq. differs, <211>LENGTH:Input:6 Found:0 SEQ:15  
L:241 M:252 E: No. of Seq. differs, <211>LENGTH:Input:6 Found:0 SEQ:16  
L:252 M:252 E: No. of Seq. differs, <211>LENGTH:Input:6 Found:0 SEQ:17  
L:263 M:252 E: No. of Seq. differs, <211>LENGTH:Input:6 Found:0 SEQ:18  
L:274 M:252 E: No. of Seq. differs, <211>LENGTH:Input:6 Found:0 SEQ:19  
L:285 M:252 E: No. of Seq. differs, <211>LENGTH:Input:6 Found:0 SEQ:20  
L:309 M:252 E: No. of Seq. differs, <211>LENGTH:Input:6 Found:0 SEQ:22  
L:320 M:252 E: No. of Seq. differs, <211>LENGTH:Input:6 Found:0 SEQ:23  
L:331 M:252 E: No. of Seq. differs, <211>LENGTH:Input:6 Found:0 SEQ:24  
L:343 M:252 E: No. of Seq. differs, <211>LENGTH:Input:6 Found:0 SEQ:25  
L:351 M:252 E: No. of Seq. differs, <211>LENGTH:Input:6 Found:0 SEQ:26  
L:359 M:252 E: No. of Seq. differs, <211>LENGTH:Input:6 Found:0 SEQ:27  
L:370 M:252 E: No. of Seq. differs, <211>LENGTH:Input:6 Found:0 SEQ:28  
L:378 M:252 E: No. of Seq. differs, <211>LENGTH:Input:6 Found:0 SEQ:29  
L:386 M:252 E: No. of Seq. differs, <211>LENGTH:Input:6 Found:0 SEQ:30  
L:394 M:252 E: No. of Seq. differs, <211>LENGTH:Input:6 Found:0 SEQ:31  
L:405 M:252 E: No. of Seq. differs, <211>LENGTH:Input:8 Found:0 SEQ:32  
L:416 M:252 E: No. of Seq. differs, <211>LENGTH:Input:8 Found:0 SEQ:33  
L:427 M:252 E: No. of Seq. differs, <211>LENGTH:Input:8 Found:0 SEQ:34  
L:438 M:252 E: No. of Seq. differs, <211>LENGTH:Input:8 Found:0 SEQ:35  
L:449 M:252 E: No. of Seq. differs, <211>LENGTH:Input:8 Found:0 SEQ:36  
L:460 M:252 E: No. of Seq. differs, <211>LENGTH:Input:8 Found:0 SEQ:37  
L:471 M:252 E: No. of Seq. differs, <211>LENGTH:Input:8 Found:0 SEQ:38  
L:482 M:252 E: No. of Seq. differs, <211>LENGTH:Input:4 Found:0 SEQ:39  
L:493 M:252 E: No. of Seq. differs, <211>LENGTH:Input:4 Found:0 SEQ:40  
L:504 M:252 E: No. of Seq. differs, <211>LENGTH:Input:4 Found:0 SEQ:41  
L:515 M:252 E: No. of Seq. differs, <211>LENGTH:Input:5 Found:0 SEQ:42  
L:526 M:252 E: No. of Seq. differs, <211>LENGTH:Input:5 Found:0 SEQ:43  
L:537 M:252 E: No. of Seq. differs, <211>LENGTH:Input:5 Found:0 SEQ:44  
L:548 M:252 E: No. of Seq. differs, <211>LENGTH:Input:5 Found:0 SEQ:45  
L:559 M:252 E: No. of Seq. differs, <211>LENGTH:Input:10 Found:0 SEQ:46  
L:570 M:252 E: No. of Seq. differs, <211>LENGTH:Input:4 Found:0 SEQ:47  
L:581 M:252 E: No. of Seq. differs, <211>LENGTH:Input:4 Found:0 SEQ:48



## VERIFICATION SUMMARY

DATE: 11/27/2000

PATENT APPLICATION: US/09/496,231A

TIME: 17:39:42

Input Set : A:\PTO.txt

Output Set: N:\CRF3\11272000\I496231A.raw

L:596 M:252 E: No. of Seq. differs, <211>LENGTH:Input:4 Found:0 SEQ:49  
 L:615 M:252 E: No. of Seq. differs, <211>LENGTH:Input:6 Found:0 SEQ:50  
 L:626 M:252 E: No. of Seq. differs, <211>LENGTH:Input:6 Found:0 SEQ:51  
 L:638 M:333 E: Wrong sequence grouping, Amino acids not in groups!  
 L:638 M:252 E: No. of Seq. differs, <211>LENGTH:Input:19 Found:3 SEQ:52  
 L:650 M:333 E: Wrong sequence grouping, Amino acids not in groups!  
 L:663 M:333 E: Wrong sequence grouping, Amino acids not in groups!  
 L:678 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:55  
 L:692 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:56  
 L:726 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:59  
 L:738 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:60  
 L:750 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:61  
 L:765 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:62  
 L:779 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:63  
 L:802 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:65  
 L:827 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:67  
 L:850 M:333 E: Wrong sequence grouping, Amino acids not in groups!  
 L:852 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:69  
 L:852 M:333 E: Wrong sequence grouping, Amino acids not in groups!  
 M:332 Repeated in SeqNo=69  
 L:853 M:333 E: Wrong sequence grouping, Amino acids not in groups!  
 L:855 M:333 E: Wrong sequence grouping, Amino acids not in groups!  
 L:856 M:333 E: Wrong sequence grouping, Amino acids not in groups!  
 L:856 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:1  
 L:858 M:333 E: Wrong sequence grouping, Amino acids not in groups!  
 L:875 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:60 SEQ:70  
 L:876 M:334 W: (2) Invalid Amino Acid in Coding Region, NUMBER OF INVALID KEYS:6  
 L:877 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:70  
 L:877 M:334 W: (2) Invalid Amino Acid in Coding Region, NUMBER OF INVALID KEYS:6  
 L:878 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:70  
 L:878 M:334 W: (2) Invalid Amino Acid in Coding Region, NUMBER OF INVALID KEYS:6  
 L:879 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:70  
 L:879 M:334 W: (2) Invalid Amino Acid in Coding Region, NUMBER OF INVALID KEYS:6  
 L:880 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:70  
 L:880 M:334 W: (2) Invalid Amino Acid in Coding Region, NUMBER OF INVALID KEYS:6  
 L:881 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:70  
 L:881 M:334 W: (2) Invalid Amino Acid in Coding Region, NUMBER OF INVALID KEYS:6  
 M:254 Repeated in SeqNo=70  
 L:882 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:3  
 L:897 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:71